

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-9. (Canceled)

10. (Currently amended) An information processing device for decoding information received from a remote device, the information being encoded with a first key and the first key being encrypted by a second key, the device comprising:

~~a first storage means for storing an encrypted first key encrypted by a second key shared with another device and a decoding means, the first storage means a security unit and a decoding unit, wherein the security unit comprises:~~

first authentication means for authenticating the decoding ~~means~~ unit and generating a temporary key shared with the decoding ~~means~~ unit;

first encrypting/decrypting means for decrypting the encrypted first key with the second key, and ~~[[for]]~~ then encrypting the first key with the temporary key; and

transmitting means for transmitting the encrypted first key and the temporary key generated by the first authentication means to the decoding unit; and

the decoding ~~means~~ unit comprising comprises:

second authentication means for authenticating the ~~first storage means~~ security unit;

receiving means for receiving the encrypted first key and the temporary key from the ~~first storage means~~ security unit; and

second ~~encrypting/decrypting~~ decrypting means for decrypting the encrypted first key with the temporary key;

wherein the decoding means unit decodes the information with the first key obtained by the second ~~encrypting/decrypting~~ decrypting means.

11. (Currently amended) An information processing method for decoding information received from a first device, wherein the information is encoded with an encrypted first key, comprising:

a first storage step of storing ~~an~~ the encrypted first key in a memory of a security unit in a second device, wherein the encrypted first key is encrypted by a second key;

a first authentication step of authenticating a first decoding step and generating a temporary key, the temporary key being shared in the first decoding step;

a first encrypting/decrypting step of decrypting the encrypted first key with the second key, and encrypting the first key with the temporary key;

transmitting the encrypted first key and the temporary key generated in the first authentication step to a decoding unit in the second device;

the first decoding step including a second mutual authentication step of authenticating the first storage step;

receiving the encrypted first key and the temporary key;

a second ~~encrypting/decrypting~~ decrypting step of decrypting the encrypted first key with the temporary key; and

a second decoding step of decoding the information with the first key obtained by the second ~~encrypting/decrypting~~ decrypting step.

12. (Currently amended) A program providing medium for providing a computer-readable program to cause an information processing device to perform a method for decoding information received from a first device, wherein the information is encoded with an encrypted first key, comprising:

a first storage step of storing ~~an~~ the encrypted first key in a memory of a security unit in a second device, wherein the encrypted first key is encrypted by a second key;

a first authentication step of authenticating a first encrypting/decrypting step and generating a temporary key, the temporary key being shared in the first encrypting/decrypting step;

the first encrypting/decrypting step including ~~encrypting/decrypting~~ decrypting the encrypted first key with the second key and including encrypting the first key with the temporary key;

transmitting the encrypted first key with the temporary key to a decoding unit in the second device;

the program causing a decoding means to execute processing comprising:

a second authentication step of authenticating the first storage step;

receiving the encrypted first key with the temporary key from the first storage step;

a second ~~encrypting/decrypting~~ decrypting step of decrypting the encrypted first key with the temporary key; and

a third encrypting/decrypting step of decoding the information with the first key obtained by the second encrypting/decrypting step.

Claims 13-71. (Canceled)